



Sequence Listing

BB
<110> de Sauvage, Frederic J.
Gurney, Austin
Murone, Maximilien
Rosenthal, Arnon
Stone, Donna M.
Wood, William I.

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TECH CENTER 1600/2900

<120> Human Suppressor of Fused

<130> P1548R1-US

<140> US 09/581,742

<141> 2000-06-16

<150> US 60/123,090

<151> 1999-03-05

<150> US 60/135,736

<151> 1999-05-25

<150> PCT/US00/05746

<151> 2000-03-02

<160> 10

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<211> 1760

<212> DNA

<213> Homo sapiens

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cgcttcgctc tttccccgg gactgcacgc catctacgga gagtgccgcc 200
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tgtggggagc ccttctgcta acatccccga gcactggcac tacatcagct 350
tcggcctgag tgatctctat ggtgacaaca gagtccatga gtttacagga 400
acagatggac ctagtggttt tggctttgag ttgaccttc gtctgaagag 450
agaaactggg gagtctgccc caccaacatg gccgcgagag ttaatgcagg 500
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tcagcccagc agtggaacgg gcagggcatc ctggagctgc tgcggacagt 750
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tcggcacaca gccccggcga ctctctggca aagacacaga gcagatccgg 1000
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gcaaagacag cctggaaagt gacagctcca cggccatcat tccccatgag 1150
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ggcactttac atataaaagt atcacaggtg acatggccat cacgtttgtc 1300
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<211> 431

<212> PRT

<213> Homo sapiens

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Pro	Pro	Gly	Leu	His	Ala	Ile	Tyr	Gly	Glu	Cys	Arg	Arg	Leu	Tyr	
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Pro	Asp	Gln	Pro	Asn	Pro	Leu	Gln	Val	Thr	Ala	Ile	Val	Lys	Tyr	
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Trp	Leu	Gly	Gly	Pro	Asp	Pro	Leu	Asp	Tyr	Val	Ser	Met	Tyr	Arg	
				65					70					75	
Asn	Val	Gly	Ser	Pro	Ser	Ala	Asn	Ile	Pro	Glu	His	Trp	His	Tyr	
				80					85					90	
Ile	Ser	Phe	Gly	Leu	Ser	Asp	Leu	Tyr	Gly	Asp	Asn	Arg	Val	His	
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Glu	Phe	Thr	Gly	Thr	Asp	Gly	Pro	Ser	Gly	Phe	Gly	Phe	Glu	Leu	
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Thr	Phe	Arg	Leu	Lys	Arg	Glu	Thr	Gly	Glu	Ser	Ala	Pro	Pro	Thr	
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Trp	Pro	Ala	Glu	Leu	Met	Gln	Gly	Leu	Ala	Arg	Tyr	Val	Phe	Gln	
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Ser	Glu	Asn	Thr	Phe	Cys	Ser	Gly	Asp	His	Val	Ser	Trp	His	Ser	
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				185					190					195	
Thr	Phe	Leu	Gln	Ile	Val	Gly	Val	Cys	Thr	Glu	Glu	Leu	His	Ser	
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Gly	Glu	Thr	Ile	Phe	Glu	Ile	Asp	Pro	His	Leu	Gln	Glu	Arg	Val	
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Ser	Gly	Lys	Asp	Thr	Glu	Gln	Ile	Arg	Glu	Thr	Leu	Arg	Arg	Gly	
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Leu	Glu	Ile	Asn	Ser	Lys	Pro	Val	Leu	Pro	Pro	Ile	Asn	Pro	Gln	
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Arg	Gln	Asn	Gly	Leu	Ala	His	Asp	Arg	Ala	Pro	Ser	Arg	Lys	Asp	
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Ile	Arg	Thr	Arg	Gln	Leu	Glu	Ser	Val	His	Leu	Lys	Phe	Asn	Gln	
				365					370					375	
Glu	Ser	Gly	Ala	Leu	Ile	Pro	Leu	Cys	Leu	Arg	Gly	Arg	Leu	Leu	
				380					385					390	
His	Gly	Arg	His	Phe	Thr	Tyr	Lys	Ser	Ile	Thr	Gly	Asp	Met	Ala	
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Ile	Thr	Phe	Val	Ser	Thr	Gly	Val	Glu	Gly	Ala	Phe	Ala	Thr	Glu	
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<221> unsure

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<223> unknown base

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ccaggttacc gctatcgta agtactgggtt ggggtggcca gacccttg 200

actatgtag catgtacagg aatgtgggga gcccttctgc taacatcccc 250
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<211> 468
<212> PRT
<213> Drosophila Melanogaster

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35 40 45
Leu Gly Gly Gln Asp Pro Leu Asp Tyr Ile Ser Met Tyr Lys Phe
50 55 60
Pro Gly Asp Val Asp Arg Asn Val Pro Pro His Trp His Tyr Ile
65 70 75
Ser Phe Gly Leu Ser Asp Leu His Gly Asp Glu Arg Val His Leu
80 85 90
Arg Glu Glu Gly Val Thr Arg Ser Gly Met Gly Phe Glu Leu Thr
95 100 105
Phe Arg Leu Ala Lys Thr Glu Ile Glu Leu Lys Gln Gln Ile Glu
110 115 120
Asn Pro Glu Lys Pro Gln Arg Ala Pro Thr Trp Pro Ala Asn Leu
125 130 135
Leu Gln Ala Ile Gly Arg Tyr Cys Phe Gln Thr Gly Asn Gly Leu
140 145 150
Cys Phe Gly Asp Asn Ile Pro Trp Arg Lys Ser Leu Asp Gly Ser
155 160 165
Thr Thr Ser Lys Leu Gln Asn Leu Leu Val Ala Gln Asp Pro Gln
170 175 180
Leu Gly Cys Ile Asp Thr Pro Thr Gly Thr Val Asp Phe Cys Gln
185 190 195
Ile Val Gly Val Phe Asp Asp Glu Leu Glu Gln Ala Ser Arg Trp
200 205 210
Asn Gly Arg Gly Val Leu Asn Phe Leu Arg Gln Asp Met Gln Thr

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Phe Glu Leu Phe	Pro Glu Thr Leu Leu	Asn Leu Gln Asp Asp Leu			
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Glu Lys Gln Gly	Ser Asp Leu Ala Gly	Val Asn Ala Asp Phe Ser			
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Phe Arg Glu Leu	Lys Pro Thr Lys Glu	Val Lys Glu Glu Val Asp			
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Phe Gln Ala Leu	Ser Glu Lys Cys Ala	Asn Asp Glu Asn Asn Arg			
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Gln Leu Thr Asp	Thr Gln Met Lys Arg	Glu Glu Pro Ser Phe Pro			
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Gln Ser Met Ser	Met Ser Ser Asn Ser	Leu His Lys Ser Cys Pro			
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Leu Asp Phe Gln	Ala Gln Ala Pro Asn	Cys Ile Ser Leu Asp Gly			
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Ile Glu Ile Thr	Leu Ala Pro Gly Val	Ala Lys Tyr Leu Leu Leu			
	350	355		360	
Ala Ile Lys Asp	Arg Ile Arg His Gly	Arg His Phe Thr Phe Lys			
	365	370		375	
Ala Gln His Leu	Ala Leu Thr Leu Val	Ala Glu Ser Val Thr Gly			
	380	385		390	
Ser Ala Val Thr	Val Asn Glu Pro Tyr	Gly Val Leu Gly Tyr Trp			
	395	400		405	
Ile Gln Val Leu	Ile Pro Asp Glu Leu	Val Pro Arg Leu Met Glu			
	410	415		420	
Asp Phe Cys Ser	Ala Gly Leu Asp Glu	Lys Cys Glu Pro Lys Glu			
	425	430		435	
Arg Leu Glu Leu	Glu Trp Pro Asp Lys	Asn Leu Lys Leu Ile Ile			
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Asp Gln Pro Glu	Pro Val Leu Pro Met	Ser Leu Asp Ala Ala Pro			
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Leu Lys Met					

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catgtacagg aacatgggga gtccttctgc caacatccct gagcactggc 150

actacatcag ctttggcctg agtgatctct atggtgacaa cagagtccat 200

gagtttacag gaacagacgg accaagtgga tttggctttg agttgacgtt 250

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<212> DNA

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<223> reverse PCR cloning primer

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<210> 8

<211> 40

<212> DNA

<213> Artificial sequence

<220>

<223> hybridization probe

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<210> 9

<211> 441

<212> PRT

<213> Artificial sequence

<220>

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Pro	Pro	Gly	Leu	His	Ala	Ile	Tyr	Gly	Glu	Cys	Arg	Arg	Leu	Tyr	
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Pro	Asp	Gln	Pro	Asn	Pro	Leu	Gln	Val	Thr	Ala	Ile	Val	Lys	Tyr	
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Trp	Leu	Gly	Gly	Pro	Asp	Pro	Leu	Asp	Tyr	Val	Ser	Met	Tyr	Arg	
				65					70					75	
Asn	Val	Gly	Ser	Pro	Ser	Ala	Asn	Ile	Pro	Glu	His	Trp	His	Tyr	
				80					85					90	
Ile	Ser	Phe	Gly	Leu	Ser	Asp	Leu	Tyr	Gly	Asp	Asn	Arg	Val	His	
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Glu	Phe	Thr	Gly	Thr	Asp	Gly	Pro	Ser	Gly	Phe	Gly	Phe	Glu	Leu	
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Thr	Phe	Arg	Leu	Lys	Arg	Glu	Thr	Gly	Glu	Ser	Ala	Pro	Pro	Thr	
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Trp	Pro	Ala	Glu	Leu	Met	Gln	Gly	Leu	Ala	Arg	Tyr	Val	Phe	Gln	
				140					145					150	
Ser	Glu	Asn	Thr	Phe	Cys	Ser	Gly	Asp	His	Val	Ser	Trp	His	Ser	
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Gly	Glu	Thr	Ile	Phe	Glu	Ile	Asp	Pro	His	Leu	Gln	Glu	Arg	Val	
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Asp	Lys	Gly	Ile	Glu	Thr	Asp	Gly	Ser	Asn	Leu	Ser	Gly	Val	Ser	

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290	295	300
Ser Gly Lys Asp Thr Glu Gln Ile Arg Glu Thr Leu Arg Arg Gly		
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Leu Glu Ile Asn Ser Lys Pro Val Leu Pro Pro Ile Asn Pro Gln		
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Arg Gln Asn Gly Leu Ala His Asp Arg Ala Pro Ser Arg Lys Asp		
335	340	345
Ser Leu Glu Ser Asp Ser Ser Thr Ala Ile Ile Pro His Glu Leu		
350	355	360
Ile Arg Thr Arg Gln Leu Glu Ser Val His Leu Lys Phe Asn Gln		
365	370	375
Glu Ser Gly Ala Leu Ile Pro Leu Cys Leu Arg Gly Arg Leu Leu		
380	385	390
His Gly Arg His Phe Thr Tyr Lys Ser Ile Thr Gly Asp Met Ala		
395	400	405
Ile Thr Phe Val Ser Thr Gly Val Glu Gly Ala Phe Ala Thr Glu		
410	415	420
Glu His Pro Tyr Ala Ala His Gly Pro Trp Leu Gln Leu Asp Tyr		
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 <212> PRT
 <213> Artificial sequence

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 <223> hSu(fu)-GST protein

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20 25 30
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35 40 45

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Gly	Asp	Val	Lys	Leu	Thr	Gln	Ser	Met	Ala	Ile	Ile	Arg	Tyr	Ile	
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Ala	Asp	Lys	His	Asn	Met	Leu	Gly	Gly	Cys	Pro	Lys	Glu	Arg	Ala	
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Glu	Ile	Ser	Met	Leu	Glu	Gly	Ala	Val	Leu	Asp	Ile	Arg	Tyr	Gly	
				95					100					105	
Val	Ser	Arg	Ile	Ala	Tyr	Ser	Lys	Asp	Phe	Glu	Thr	Leu	Lys	Val	
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Asp	Phe	Leu	Ser	Lys	Leu	Pro	Glu	Met	Leu	Lys	Met	Phe	Glu	Asp	
				125					130					135	
Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn	Gly	Asp	His	Val	Thr	His	
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Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp	Val	Val	Leu	Tyr	Met	
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Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys	Leu	Val	Cys	Phe	Lys	
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Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys	Tyr	Leu	Lys	Ser	
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Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala	Thr	Phe	
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Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Val	Pro	Arg	Gly	
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Ser	Ala	Glu	Leu	Arg	Pro	Ser	Gly	Ala	Pro	Gly	Pro	Thr	Ala	Pro	
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Pro	Ala	Pro	Gly	Pro	Thr	Ala	Pro	Pro	Ala	Phe	Ala	Ser	Leu	Phe	
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Pro	Pro	Gly	Leu	His	Ala	Ile	Tyr	Gly	Glu	Cys	Arg	Arg	Leu	Tyr	
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Pro	Asp	Gln	Pro	Asn	Pro	Leu	Gln	Val	Thr	Ala	Ile	Val	Lys	Tyr	
				275					280					285	
Trp	Leu	Gly	Gly	Pro	Asp	Pro	Leu	Asp	Tyr	Val	Ser	Met	Tyr	Arg	
				290					295					300	
Asn	Val	Gly	Ser	Pro	Ser	Ala	Asn	Ile	Pro	Glu	His	Trp	His	Tyr	
				305					310					315	

Ile Ser Phe Gly	Leu Ser Asp Leu Tyr Gly	Asp Asn Arg Val His
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Glu Phe Thr Gly	Thr Asp Gly Pro Ser Gly	Phe Gly Phe Glu Leu
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Thr Phe Arg Leu	Lys Arg Glu Thr Gly	Glu Ser Ala Pro Pro Thr
350	355	360
Trp Pro Ala Glu	Leu Met Gln Gly Leu Ala	Arg Tyr Val Phe Gln
365	370	375
Ser Glu Asn Thr	Phe Cys Ser Gly Asp	His Val Ser Trp His Ser
380	385	390
Pro Leu Asp Asn	Ser Glu Ser Arg Ile	Gln His Met Leu Leu Thr
395	400	405
Glu Asp Pro Gln	Met Gln Pro Val Gln	Thr Pro Phe Gly Val Val
410	415	420
Thr Phe Leu Gln	Ile Val Gly Val Cys	Thr Glu Glu Leu His Ser
425	430	435
Ala Gln Gln Trp	Asn Gly Gln Gly Ile	Leu Glu Leu Leu Arg Thr
440	445	450
Val Pro Ile Ala	Gly Gly Pro Trp Leu	Ile Thr Asp Met Arg Arg
455	460	465
Gly Glu Thr Ile	Phe Glu Ile Asp Pro	His Leu Gln Glu Arg Val
470	475	480
Asp Lys Gly Ile	Glu Thr Asp Gly Ser	Asn Leu Ser Gly Val Ser
485	490	495
Ala Lys Cys Ala	Trp Asp Asp Leu Ser	Arg Pro Pro Glu Asp Asp
500	505	510
Glu Asp Ser Arg	Ser Ile Cys Ile Gly	Thr Gln Pro Arg Arg Leu
515	520	525
Ser Gly Lys Asp	Thr Glu Gln Ile Arg	Glu Thr Leu Arg Arg Gly
530	535	540
Leu Glu Ile Asn	Ser Lys Pro Val Leu	Pro Pro Ile Asn Pro Gln
545	550	555
Arg Gln Asn Gly	Leu Ala His Asp Arg	Ala Pro Ser Arg Lys Asp
560	565	570
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575	580	585
Ile Arg Thr Arg	Gln Leu Glu Ser Val	His Leu Lys Phe Asn Gln

BB
cont.